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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,884	09/22/2003		Keiji Hayashida	Q77404	4264	
23373	7590	03/08/2005		EXAM	EXAMINER	
SUGHRUE		PLLC A AVENUE, N.W.	KINKEAD,	KINKEAD, ARNOLD M		
SUITE 800	JI L VAINI	A A V LIVOL, IV.W.	ART UNIT	PAPER NUMBER		
WASHINGT	ON, DC	20037	2817	<u> </u>		

DATE MAILED: 03/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM	Office Action Summary	10/664,884	HAYASHIDA ET AL
Arnold M. Kinkead The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM	Office Action Summary		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM	•	Examiner	Art Unit
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM		1	
		ears on the cover sheet with the c	correspondence address
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status	Status		
1) Responsive to communication(s) filed on	1) Responsive to communication(s) filed on	_•	
2a) This action is FINAL . 2b) This action is non-final.	2a) This action is FINAL . 2b) ☑ This	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is	3) Since this application is in condition for allowar		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims	Disposition of Claims		
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.	4) Claim(s) 1-11 is/are pending in the application		
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.	•		
6)⊠ Claim(s) <u>1,3,7 and 8</u> is/are rejected.			
7) Claim(s) <u>2,4-6,9,10 and 11</u> is/are objected to	7) Claim(s) 2,4-6,9,10 and 11 is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.	8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers	Application Papers		
9) The specification is objected to by the Examiner.	9) The specification is objected to by the Examine	r.	
10)☑ The drawing(s) filed on <u>22 September 2003</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.	•		ted to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			•
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119	Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:			
1.⊠ Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)).	•		
* See the attached detailed Office action for a list of the certified copies not received.			
Attachment(s)		. 🗖	
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal P	
Paper No(s)/Mail Date 6)		6)	M. M.

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DETAILED ACTION

Priority

 Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

2.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1,3,7, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Hwang et al(US 6,346,838).

 The reference by Hwang et al discloses a PLL, phase locked loop circuit, see figure 3, which has been implemented as an integrated circuit, see col. 1, lines 5-10, for example, that comprises a DLL circuit(12,36,38,40(control circuit for first delay circuit(36))) for detecting a phase difference between an external reference clock(CLK_IN) and a Feedback clock(FB synchronous clock signal). A reference delay clock(REF) and synchronous clock delay signal(FCK) are shown. VCDL(36) allows for the adjustment of the phase difference (based on the increase in current(UP,or decrease DN)) from charge pump(40) to allow for offset/skew correction. The analog PLL including (26,20,24) supplied with the reference clock and synchronous clock delayed signals(RCK,FCK). The phase of an

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output control signal(CLK_OUT) is synchronized with the CLK_In and sent to electronic circuit(14). Note second delay circuit(32).

Allowable Subject Matter

5. Claims 2,4-6, and 9-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The examiner could not find fair suggestion for the plurality of delay, cascaded units...plurality of detected results...sum of the detected phase differences...maximum delay times set to a value...and total delay set...to absolute value...

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M. Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9,197 (toll-free).

Arnold M Kinkead Primary Examiner

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Arnold Kinkead March 01, 2005